

PATENT SPECIFICATION



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276,498

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PROVISIONAL SPECIFICATION.

Squeegee Device for Applying Liquids to Surfaces.

I, JOSEPH DUFFY, a British subject, of Gainsborough Road, Victoria Park, London, E. 9, do hereby declare the nature of this invention to be as follows:—

This invention relates to a squeegee useful for various purposes including the application of the hot liquid bituminous compound used when laying street 10 paving blocks and which is moved to and fro over the blocks so as to enter the spaces between the sides and ends of the blocks and form a mastic filling.

According to the present invention the 15 squeegee, which may be of any suitable shape and size, is of open frame or box-like form and the liquid material is poured into the box, which is provided with a handle or handles so that it can 20 be moved to and fro as required.

Amongst the advantages of this construction are that the liquid is kept hot for a longer time, the weight of the liquid in the "box" is helpful in pressing the liquid into the said spaces or 25 crevices and because it is hot the said pressure and that of the edges of the box cause the liquid to penetrate either or both further and more quickly.

The under edges of the frame or box 30 have india rubber or equivalent strips much like those of the straight squeegees now used.

Dated this 24th day of August, 1926.

HY. FAIRBROTHER, 35
Chartered Patent Agent,
30 and 32, Ludgate Hill, London,
E.C. 4.

COMPLETE SPECIFICATION.

Squeegee Device for Applying Liquids to Surfaces.

I, JOSEPH DUFFY, a British subject, 40 of Gainsborough Road, Victoria Park, London, E. 9, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained 45 in and by the following statement:—

This invention relates to a new or improved method and a hand-operated squeegee device for applying liquids to surfaces such as the application of the 50 hot liquid bituminous compound used when laying street paving blocks and which is moved to and fro over the blocks so as to enter the spaces between the sides and ends of the blocks and form a 55 mastic filling.

According to the present invention the squeegee device, which may be of any suitable shape and size, is of open frame or bottomless box-like form and the liquid material is poured into the box, 60 which is provided with a handle or handles so that it can be moved to and fro as required. The box may be provided with a suitable cover, if desired.

Amongst the advantages of the construction of squeegee according to the invention are that the liquid is kept hot for a longer time, the weight of the liquid in the "box" is helpful in pressing the liquid into the said spaces or 70 crevices and because it is hot the said pressure and that of the edges of the box

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cause the liquid to penetrate further and more quickly.

The under edges of the frame or box have strips of resilient material such as 5 india rubber, which may be arranged in single or multiple form on the said edges.

I will describe my invention with 10 reference to the accompanying drawings, wherein:—

Fig. 1 is a perspective illustration of 15 what I will call a box squeegee, constructed in accordance with the invention, and the view in

Fig. 2, or that in Fig. 3, may be 20 described as a fragmentary view of the lower portion of a wall of the box shown in Fig. 1, to which a single strip of india rubber, or two strips of this material, have been applied.

Referring to Fig. 1, the squeegee comprises end walls *a*, *a* and side walls *b*, *b* strengthened at the corners *c* by angle plates *d*. A handle *e* is carried by a 25 stirrup formed by members *f*, *f*, pivoted to the squeegee by bolts *g*. India rubber strip *h* is shown attached to the lower edges of the box walls and may take the form of that shown at *h*¹ in Fig. 30 2, or may be of double form as that shown at *h*¹¹, Fig. 3, or as is found desirable.

A suitable cover may be hinged or 35 otherwise used in conjunction with the squeegee.

In use, for road surfacing purposes, the hot liquid compound is poured into 40 the box and the box moved to and fro over the surface to be treated, so that, partly due to the weight of the liquid in the box, partly to the action of the lower edges of the box, and partly to the good retention of the heat by the mass, the liquid penetrates into the crevices 45 between the paving blocks in a highly efficient manner.

The shape of the squeegee and other constructional details of the box may vary 50 as desired.

It has been proposed as in Specifications 238,679 and 240,544 to provide 55 travelling containers with trough-like spreaders or squeegees the under sides of which are open to the road and into which bituminous liquid from the con-

tainers is passed by one or more pipes; but my device differs from these in that it is for hand use and is supplied with one or more handles by which it can be moved to and fro.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. A new or improved method of applying liquids to surfaces, which consists in employing a hand-operated squeegee of bottomless box form and provided with one or more handles into which box-like device the liquid to be applied is poured, and moving the squeegee to and fro over the surface.

2. A new or improved method of applying liquids to surfaces according to Claim 1, particularly road surfaces, which consists in employing a squeegee of bottomless box form into the hollow of which hot liquid bituminous compound is poured, and moving the squeegee to and fro over the road surface until the crevices between the paving blocks or the like have been filled by the liquid (mastic) to the desired degree.

3. A squeegee for applying liquids to surfaces, more particularly road surfaces, comprising a frame or bottomless box provided adjacent its under edges with strips of resilient material and adapted to receive the liquid, and provided with at least one operating handle whereby the squeegee can be moved to and fro over the surface as desired.

4. A squeegee for applying liquids to surfaces, according to Claim 3, wherein the lower edges of the walls of the frame or bottomless box are provided with india rubber strips.

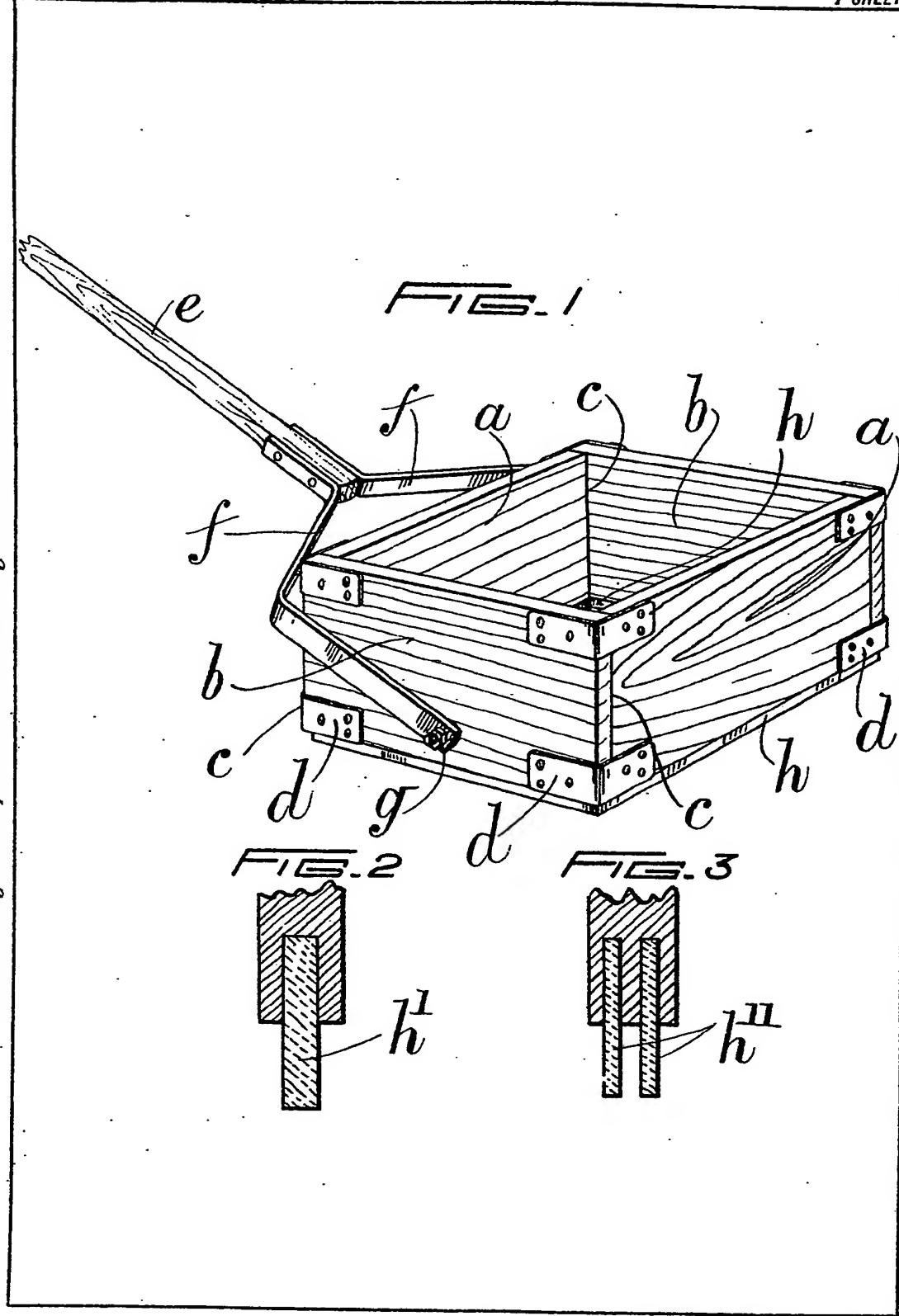
5. The new or improved method of, and squeegee for, applying liquids to surfaces substantially as herein described with reference to the accompanying drawings.

Dated this 7th day of April, 1927.

HY. FAIRBROTHER,
Chartered Patent Agent,
30 and 32, Ludgate Hill, London,
E.C. 4.

Redhill: Printed for His Majesty's Stationery Office, by Love & Malcomson, Ltd.—1927.

[This Drawing is a reproduction of the Original on a reduced scale.]



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